



We help the world breathe  
PULMONARY • CRITICAL CARE • SLEEP

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# EOPH Newsletter

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## ***EOPH***

### ***Web Editorial Committee***

*Craig Glazer*

*Kristina Bailey*

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*Tara Nordgren*

*Claire McCarthy*

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Dear EOPH members,

Welcome to the April 2016 EOPH newsletter. In this issue, we give you a preview of the ATS 2016 EOPH sessions. We will also share some exciting, recent publications and achievements from our membership. We also provide information about ATS research funding and training opportunities, as well as EOPH events at the upcoming ATS Conference.

We would appreciate feedback for future issues. Please contact us with any noteworthy publications, achievements, or suggestions for future issues at [kbailey@unmc.edu](mailto:kbailey@unmc.edu) or [craig.glazer@utsouthwestern.edu](mailto:craig.glazer@utsouthwestern.edu).

Sincerely,

Kristina Bailey & Claire McCarthy



## Preview of ATS 2016

Here is a list of the sessions sponsored by the EOPH this year. We hope to see you there! Also, don't forget the **EOPH Assembly Meeting**. Please join us at the EOPH Assembly Meeting at the 2016 ATS Conference in San Francisco on **Monday, May 16** from **5:00-7:00 pm** in **Continental Ballroom 4** – Ballroom Level at the **Hilton San Francisco Union Square**.

ATS 2016 INTERNATIONAL CONFERENCE ASSEMBLY ON ENVIRONMENTAL, OCCUPATIONAL AND POPULATION HEALTH SESSIONS			
Session Code	Session Title	Session Time	
<i>Postgraduate Courses</i>			
<b>Saturday, May 14, 2016</b>			
PG21	EPIGENETICS OF LUNG DISEASE	8:00 AM	4:00 PM
<i>Scientific Symposium</i>			
<b>Sunday, May 15, 2016</b>			
A87	E-CIGARETTE VAPING: PRECLINICAL AND CLINICAL PULMONARY HEALTH EFFECTS	2:15 PM	4:15 PM
<b>Monday, May 16, 2016</b>			
B89	HEALTH EFFECTS OF INHALED TOXINS: FROM THE BENCH TO THE TRENCHES: A GLOBAL PERSPECTIVE	2:15 PM	4:15 PM
<b>Tuesday, May 17, 2016</b>			
C10	ACHIEVING "ENVIRONMENTAL JUSTICE": A MAJOR STEP TOWARD RESPIRATORY HEALTH EQUALITY	9:00 AM	11:00 AM
<b>Wednesday, May 18, 2016</b>			
D87	CLIMATE CHANGES AND RESPIRATORY INFECTIONS	1:30 PM	3:30 PM
<i>Jointly-Developed Symposium</i>			
<b>Sunday, May 15, 2016</b>			
A11	GLOBAL LUNG CANCER HEALTH ISSUES	9:00 AM	11:00 AM
A91	HOT TOPICS IN DISPARITIES IN PULMONARY, CRITICAL CARE AND SLEEP MEDICINE	2:15 PM	4:15 PM
<i>Sunrise Seminars</i>			
<b>Monday, May 16, 2016</b>			
SS113	E-CIGARETTES: EPIDEMIOLOGY AND TOXICITY	6:45 AM	7:45 AM
<b>Tuesday, May 17, 2016</b>			
SS211	PHYSIOLOGIC EVALUATION OF PATIENTS WITH OCCUPATIONAL LUNG DISEASE FOR DIAGNOSIS, IMPAIRMENT, AND DISABILITY	6:45 AM	7:45 AM
<b>Wednesday, May 18, 2016</b>			
SS311	VITAMIN D AND ASTHMA	6:45 AM	7:45 AM

<b>Meet The Professor Seminars</b>			
<b>Sunday, May 15, 2016</b>			
MP410	PUBLIC HEALTH CO-BENEFITS FROM CLIMATE CHANGE ACTION	12:15 PM	1:15 PM
<b>Monday, May 16, 2016</b>			
MP510	AIR POLLUTION AND LUNG CANCER: ROLE OF AIRWAY EPITHELIAL CELLS	12:15 PM	1:15 PM
<b>Tuesday, May 17, 2016</b>			
MP609	AIR POLLUTION DOESN'T RECOGNIZE THE BORDER: GLOBAL PERSPECTIVE OF AIR POLLUTION	12:15 PM	1:15 PM
<b>Mini-Symposium</b>			
<b>Sunday, May 15, 2016</b>			
A16	EPIDEMIOLOGY AND HEALTH CARE COSTS OF PEDIATRIC AND ADULT ASTHMA	9:00 AM	11:00 AM
<b>Monday, May 16, 2016</b>			
B15	HEALTH EFFECTS OF INDOOR/OUTDOOR POLLUTION IN CHILDHOOD	9:00 AM	11:00 AM
<b>Tuesday, May 17, 2016</b>			
C97	COPD: EPIDEMIOLOGY, RISK FACTORS, AND BIOMARKERS	2:15 PM	4:15 PM
<b>Wednesday, May 18, 2016</b>			
D17	"OMICS" OF ENVIRONMENTAL LUNG DISEASE	9:00 AM	11:00 AM
<b>Poster Discussion Sessions</b>			
<b>Sunday, May 15, 2016</b>			
A26	SMOKE, POLLUTANTS, AND TOXINS: INSIGHTS FROM BENCH STUDIES	9:00 AM	11:00 AM
A106	EPIDEMIOLOGY AND RISK FACTORS OF ASTHMA: FROM THE CRIB TO ADULTHOOD	2:15 PM	4:15 PM
<b>Monday, May 16, 2016</b>			
B24	OCCUPATIONAL MEDICINE	9:00 AM	11:00 AM
B105	COPD: EPIDEMIOLOGY AND GENETICS	2:15 PM	4:15 PM
<b>Wednesday, May 18, 2016</b>			
D106	BIOMASS SMOKE, VOG, AND POLLUTANTS	1:30 PM	3:30 PM
<b>Thematic Poster Sessions</b>			
<b>Sunday, May 15, 2016</b>			
A58	EPIDEMIOLOGY OF COPD AND LUNG CANCER	9:00 AM	4:15 PM
A59	TOBACCO, NICOTINE, AND MARIJUANA USE	9:00 AM	4:15 PM
A60	ILD, IPF, SARCOIDOSIS, AND DIFFUSE LUNG DISEASE	9:00 AM	4:15 PM

<b>Monday, May 16, 2016</b>			
B48	ASTHMA: INSIGHTS FROM THE BENCH, GENETICS, AND EPIDEMIOLOGY	9:00 AM	4:15 PM
<b>Tuesday, May 17, 2016</b>			
C55	CARDIOPULMONARY EFFECTS OF AIR POLLUTION	9:00 AM	4:15 PM
C56	OCCUPATIONAL MEDICINE AND LUNG FUNCTION	9:00 AM	4:15 PM
<b>Wednesday, May 18, 2016</b>			
D46	CASE REPORTS IN ENVIRONMENTAL AND OCCUPATIONAL HEALTH	9:00 AM	3:30 PM
D47	EPIDEMIOLOGIC ASPECTS OF TUBERCULOSIS AND BACTERIAL INFECTIONS	9:00 AM	3:30 PM

## Recent publications

This section highlights some of our members' ground-breaking work in the month of March. These are the best articles from our assembly that became available as "epubs ahead of print" in March. It is possible that our search may miss your best work, so please send your recent publications to: [kbailey@unmc.edu](mailto:kbailey@unmc.edu).

### *Air Pollution – Aerosol Characterization and Geography*

[Characteristics of atmospheric single particles during haze periods in a typical urban area of Beijing: A case study in October, 2014.](#)

Liu L, Wang Y, Du S, Zhang W, Hou L, Vedal S, Han B, Yang W, Chen M, Bai Z. J Environ Sci (China). 2016 Feb;40:145-53.

[Association of Geography and Ambient Air Pollution with Urine Metal Concentrations in Six US Cities: The Multi-Ethnic Study of Atherosclerosis.](#)

Pang Y, Jones MR, Tellez-Plaza M, Guallar E, Vaidya D, Post WS, Kaufman JD, Delaney JA, Navas-Acien A. Int J Environ Res Public Health. 2016 Mar 15;13(3). pii: E324.

[Use of mobile and passive badge air monitoring data for NO<sub>X</sub> and ozone air pollution spatial exposure prediction models.](#)

Xu W, Riley EA, Austin E, Sasakura M, Schaal L, Gould TR, Hartin K, Simpson CD, Sampson PD, Yost MG, Larson TV, Xiu G, Vedal S. J Expo Sci Environ Epidemiol. 2016 Mar 23.

[Satellite-Based NO<sub>2</sub> and Model Validation in a National Prediction Model Based on Universal Kriging and Land-Use Regression.](#)

Young MT, Bechle MJ, Sampson PD, Szpiro AA, Marshall JD, Sheppard L, Kaufman JD. Environ Sci Technol. 2016 Mar 21.

### *Air Pollution – Cardiovascular, Metabolic, and Respiratory*

## Effects

### [Increases in Ambient Particulate Matter Air Pollution, Acute Changes in Platelet Function, and Effect Modification by Aspirin and Omega-3 Fatty Acids: A Panel Study.](#)

Becerra AZ, Georas S, Brenna JT, Hopke PK, Kane C, Chalupa D, Frampton MW, Block R, Rich DQ. J Toxicol Environ Health A. 2016 Mar 30:1-12.

### [Quantile Regression Analysis of the Distributional Effects of Air Pollution on Blood Pressure, Heart Rate Variability, Blood Lipids, and Biomarkers of Inflammation in Elderly American Men: The Normative Aging Study.](#)

Bind MA, Peters A, Koutrakis P, Coull B, Vokonas P, Schwartz J. Environ Health Perspect. 2016 Mar 11.

### [Prenatal Air Pollution Exposure and Early Cardiovascular Phenotypes in Young Adults.](#)

Breton CV, Mack WJ, Yao J, Berhane K, Amadeus M, Lurmann F, Gilliland F, McConnell R, Hodis HN, Künzli N, Avol E. PLoS One. 2016 Mar 7;11(3):e0150825.

### [Metabolomic changes in murine serum following inhalation exposure to gasoline and diesel engine emissions.](#)

Brower JB, Doyle-Eisele M, Moeller B, Stirdivant S, McDonald JD, Campen MJ. Inhal Toxicol. 2016 Mar 28:1-10.

### [Lung function in woodsmoke-exposed Guatemalan children following a chimney stove intervention.](#)

Heinzerling AP, Guarnieri MJ, Mann JK, Diaz JV, Thompson LM, Diaz A, Bruce NG, Smith KR, Balmes JR. Thorax. 2016 Mar 10. pii: thoraxjnl-2015-207783.

### [Ambient particulate matter and microRNAs in extracellular vesicles: a pilot study of older individuals.](#)

Rodosthenous RS, Coull BA, Lu Q, Vokonas PS, Schwartz JD, Baccarelli AA. Part Fibre Toxicol. 2016 Mar 8;13(1):13.

### [Subacute inhalation exposure to ozone induces systemic inflammation but not insulin resistance in a diabetic mouse model.](#)

Ying Z, Allen K, Zhong J, Chen M, Williams KM, Wagner JG, Lewandowski R, Sun Q, Rajagopalan S, Harkema JR. Inhal Toxicol. 2016 Mar;28(4):155-63.

### [Acute increase in blood pressure during inhalation of coarse particulate matter air pollution from an urban location.](#)

Byrd JB, Morishita M, Bard RL, Das R, Wang L, Sun Z, Spino C, Harkema J, Dvonch JT, Rajagopalan S, Brook RD. Am Soc Hypertens. 2016 Feb;10(2):133-139.e4.

### [Ozone-Induced Type 2 Immunity in Nasal Airways. Development and Lymphoid Cell Dependence in Mice.](#)

Ong CB, Kumagai K, Brooks PT, Brandenberger C, Lewandowski RP, Jackson-Humbles DN, Nault R, Zacharewski TR, Wagner JG, Harkema JR. Am J Respir Cell Mol Biol. 2016 Mar;54(3):331-40.

## ***Air Pollution – Impacts on Older Populations and Secondary Target Organs***

### [Long-Term Exposure to Ambient Fine Particulate Matter and Renal Function in Older Men: The VA Normative Aging Study.](#)

Mehta AJ, Zanobetti A, Bind MC, Kloog I, Koutrakis P, Sparrow D, Vokonas PS, Schwartz JD. Environ Health Perspect. 2016 Mar 8.

### [Air pollution and emergency department visits for conjunctivitis: A case-crossover study.](#)

Szyszkowicz M, Kousha T, Castner J. Int J Occup Med Environ Health. 2016;29(3):381-93.

### [Exposure to Traffic-Related Air Pollution in Relation to Progression in Physical Disability among Older Adults.](#)

Weuve J, Kaufman JD, Szpiro AA, Curl C, Puett RC, Beck T, Evans DA, Mendes de Leon CF. Environ Health

Perspect. 2016 Mar 29

## Asthma

### [Areas with High Rates of Police-Reported Violent Crime Have Higher Rates of Childhood Asthma Morbidity.](#)

Beck AF, Huang B, Ryan PH, Sandel MT, Chen C, Kahn RS. J Pediatr. 2016 Mar 5. pii: S0022-3476(16)00166-9.

### [Wooden hutch space allowance influences male Holstein calf health, performance, daily lying time, and respiratory immunity.](#)

Calvo-Lorenzo MS, Hulbert LE, Fowler AL, Louie A, Gershwin LJ, Pinkerton KE, Ballou MA, Klasing KC, Mitloehner FM. J Dairy Sci. 2016 Mar 23. pii: S0022-0302(16)30108-4.

### [Longitudinal study of maternal body mass index, gestational weight gain, and offspring asthma.](#)

Dumas O, Varraso R, Gillman MW, Field AE, Camargo CA Jr. Allergy. 2016 Mar 10.

### [The cardiomyocyte protein \$\alpha\$ T-catenin contributes to asthma through regulating pulmonary vein inflammation.](#)

Folmsbee SS, Budinger GR, Bryce PJ, Gottardi CJ. J Allergy Clin Immunol. 2016 Mar 3. pii: S0091-6749(16)00109-3.

### [Amish and Hutterite Environmental Farm Products Have Opposite Effects on Experimental Models of Asthma.](#)

Gozdz J, Holbreich M, Metwali N, Thorne PS, Sperling AI, Martinez FD, Ober C, von Mutius E, Vercelli D. Ann Am Thorac Soc. 2016 Mar;13 Suppl 1:S99.

### [Noninvasive Analysis of the Sputum Transcriptome Discriminates Clinical Phenotypes of Asthma.](#)

Yan X, Chu JH, Gomez J, Koenigs M, Holm C, He X, Perez MF, Zhao H, Mane S, Martinez FD, Ober C, Nicolae DL, Barnes KC, London SJ, Gilliland F, Weiss ST, Raby BA, Cohn L, Chupp GL. Ann Am Thorac Soc. 2016 Mar;13 Suppl 1:S104-5.

### [DNA Methylation Changes in Nasal Epithelia Are Associated with Allergic Asthma in the Inner City.](#)

Yang IV, Pedersen BS, Liu AH, O'Connor GT, Teach SJ, Kattan M, Misiak RT, Gruchalla R, Steinbach SF, Szeffler SJ, Gill MA, Calatroni A, David G, Hennessy CE, Davidson EJ, Gergen P, Togias A, Busse WW, Schwartz DA. Ann Am Thorac Soc. 2016 Mar;13 Suppl 1:S99-S100.

## Brain-Lung Connection

### [Muscimol microinjected in the arcuate nucleus affects metabolism, body temperature & ventilation.](#)

Schlenker EH. Respir Physiol Neurobiol. 2016 Mar 2;227:34-40.

### [Molecular analyses of circadian gene variants reveal sex-dependent links between depression and clocks.](#)

Shi SQ, White MJ, Borsetti HM, Pendergast JS, Hida A, Ciarleglio CM, de Verteuil PA, Cadar AG, Cala C, McMahan DG, Shelton RC, Williams SM, Johnson CH. Transl Psychiatry. 2016 Mar 1;6:e748.

## Cardiovascular Disease

### [Associations of Circulating Oxidized LDL and Conventional Biomarkers of Cardiovascular Disease in a Cross-Sectional Study of the Navajo Population.](#)

Harmon ME, Campen MJ, Miller C, Shuey C, Cajero M, Lucas S, Pacheco B, Erdei E, Ramone S, Nez T, Lewis J. PLoS One. 2016 Mar 3;11(3):e0143102.

### [Sex-related differences in age-associated downregulation of human ventricular myocardial \$\beta\$ 1-adrenergic receptors.](#)

Lindenfeld J, Cleveland JC Jr, Kao DP, White M, Wichman S, Bristow JC, Peterson V, Rodegheri-Brito J, Korst A, Blain-Nelson P, Sederberg J, Hunt SA, Gilbert EM, Ambardekar AV, Minobe W, Port JD, Bristow MR. J Heart Lung Transplant. 2016 Mar;35(3):352-61.

[Propensity Matched Analysis of del Nido Cardioplegia in Adult Coronary Artery Bypass Grafting: Initial Experience With 100 Consecutive Patients.](#)

Timek T, Willekes C, Hulme O, Himelhoch B, Nadeau D, Borgman A, Clousing J, Kanten D, Wagner J. Ann Thorac Surg. 2016 Mar 23. pii: S0003-4975(15)02100-1.

## ***Career Development for Medical Trainees***

[Recommended Reading from Winthrop-University Hospital Fellows.](#)

Desai AK, Pang J, Aparnath M, Ilowite J. Am J Respir Crit Care Med. 2016 Mar 18.

[Important Skills for Internship and the Fourth-Year Medical School Courses to Acquire Them: A National Survey of Internal Medicine Residents.](#)

Pereira AG, Harrell HE, Weissman A, Smith CD, Dupras D, Kane GC. Acad Med. 2016 Mar 1.

[Characterizing the Operative Experience of Cardiac Surgical Trainees: What Are Residents Really Doing in the Operating Room?](#)

Shah AA, Aftab M, Tchantchaleishvili V, LaPar DJ, Stephens EH, Walters DM, DeNino WF, Odell DD, Robich M, Cevasco M, Eilers AL, Gillaspie EA, Goldstone A, Malas T, Rice RD, Shelstad RC, Andersen ND. Ann Thorac Surg. 2016 Mar 25. pii: S0003-4975(15)02111-6.

## ***Education and Training in Global Health***

[Diversity in Clinical and Biomedical Research: A Promise Yet to Be Fulfilled.](#)

Oh SS, Galanter J, Thakur N, Pino-Yanes M, Barcelo NE, White MJ, de Bruin DM, Greenblatt RM, Bibbins-Domingo K, Wu AH, Borrell LN, Gunter C, Powe NR, Burchard EG. PLoS Med. 2015 Dec 15;12(12):e1001918.

[The East African Training Initiative \(EATI\): A Model Training Program in Pulmonary and Critical Care Medicine for Low-Income Countries.](#)

Sherman CB, Carter EJ, Braendli O, Getaneh A, Schluger NW. Ann Am Thorac Soc. 2016 Mar 18.

[Global Health Education in Pulmonary and Critical Care Medicine Fellowships.](#)

Siddharthan T, North CM, Attia EF, Christiani DC, Checkley W, West TE. Ann Am Thorac Soc. 2016 Mar 14.

## ***Epidemiological Studies and GWAS***

[Residential mobility impacts exposure assessment and community socioeconomic characteristics in longitudinal epidemiology studies.](#)

Brokamp C, LeMasters GK, Ryan PH. J Expo Sci Environ Epidemiol. 2016 Mar 9.

[Upper extremity musculoskeletal pain among office workers in three Spanish-speaking countries: findings from the CUPID study.](#)

Campos-Fumero A, Delclos GL, Douphrate DI, Felknor SA, Vargas-Prada S, Serra C, Coggon D, Ruiz de Porras DG. Occup Environ Med. 2016 Feb 23. pii: oemed-2015-103327.

[Medical Mondays: ED Utilization for Medicaid Recipients Depends on the Day of the Week, Season, and Holidays.](#)

Castner J, Yin Y, Loomis D, Hewner S. J Emerg Nurs. 2016 Mar 10. pii: S0099-1767(15)00582-6.

[Control for Population Structure and Relatedness for Binary Traits in Genetic Association Studies via Logistic Mixed Models.](#)

Chen H, Wang C, Conomos MP, Stilp AM, Li Z, Sofer T, Szpiro AA, Chen W, Brehm JM, Celedón JC, Redline S, Papanicolaou GJ, Thornton TA, Laurie CC, Rice K, Lin X. Am J Hum Genet. 2016 Mar 22. pii: S0002-



9297(16)00063-X.

[Estimating the Prevalence of Sleep-Disordered Breathing Among Collegiate Football Players.](#)

Dobrosielski DA, Nichols D, Ford J, Watts A, Wilder JN, Douglass-Burton T. *Respir Care*. 2016 Mar 15. pii: respcare.04520.

[Recovery Curves for Pediatric Burn Survivors: Advances in Patient-Oriented Outcomes.](#)

Kazis LE, Lee AF, Rose M, Liang MH, Li NC, Ren XS, Sheridan R, Gilroy-Lewis J, Stoddard F, Hinson M, Warden G, Stubbs K, Blakeney P, Meyer W 3rd, McCauley R, Herndon D, Palmieri T, Mooney K, Wood D, Pidcock F, Reilly D, Cullen M, Calvert C, Ryan CM, Schneider JC, Soley-Bori M, Tompkins RG. *JAMA Pediatr*. 2016 Mar 7.

[Cohort profile: the Spanish WORKing life Social Security \(WORKss\) cohort study.](#)

López Gómez MA, Durán X, Zaballa E, Sanchez-Niubo A, Delclos GL, Benavides FG. *BMJ Open*. 2016 Mar 7;6(3):e008555.

[Long-term outcomes of the bronchial artery embolization are diagnosis dependent.](#)

Pathak V, Stavas JM, Ford HJ, Austin CA, Aris RM. *Lung India*. 2016 Jan-Feb;33(1):3-8.

## ***Fibrotic Lung Diseases***

[Pneumoconiosis Redux. Coal Workers' Pneumoconiosis and Silicosis Are Still a Problem.](#)

Blanc PD, Seaton A. *Am J Respir Crit Care Med*. 2016 Mar 15;193(6):603-5.

[Giant cell interstitial pneumonia in patients without hard metal exposure: analysis of 3 cases and review of the literature.](#)

Khoor A, Roden AC, Colby TV, Roggli VL, Elrefaei M, Alvarez F, Erasmus DB, Mallea JM, Murray DL, Keller CA. *Hum Pathol*. 2016 Apr;50:176-82.

[Clinical Practice Guidelines From the Cystic Fibrosis Foundation for Preschoolers With Cystic Fibrosis.](#)

Lahiri T, Hempstead SE, Brady C, Cannon CL, Clark K, Condren ME, Guill MF, Guillerman RP, Leone CG, Maguiness K, Monchil L, Powers SW, Rosenfeld M, Schwarzenberg SJ, Tompkins CL, Zemanick ET, Davis SD. *Pediatrics*. 2016 Mar 23. pii: peds.2015-1784.

[Fiber analysis vignettes: Electron microscopy to the rescue!](#)

Roggli VL. *Ultrastruct Pathol*. 2016 Mar 2:1-6.

## ***Lung Cancer and Radiation***

[Serum phosphatidylethanolamine levels distinguish benign from malignant solitary pulmonary nodules and represent a potential diagnostic biomarker for lung cancer.](#)

Fahrman JF, Grapov DD, DeFelice BC, Taylor S, Kim K, Kelly K, Wikoff WR, Pass H, Rom WN, Fiehn O, Miyamoto S. *Cancer Biomark*. 2016 Mar 11.

[The use of isodose levels to interpret radiation induced lung injury: a quantitative analysis of computed tomography changes.](#)

Knoll MA, Salvatore M, Sheu RD, Knoll AD, Kerns SL, Lo YC, Rosenzweig KE. *Quant Imaging Med Surg*. 2016 Feb;6(1):35-41.

## ***Metals and Metal Particles***

[Metal mixtures in urban and rural populations in the US: The Multi-Ethnic Study of Atherosclerosis and the Strong Heart Study.](#)



Pang Y, Peng RD, Jones MR, Francesconi KA, Goessler W, Howard BV, Umans JG, Best LG, Guallar E, Post WS, Kaufman JD, Vaidya D, Navas-Acien A. Environ Res. 2016 Mar 2;147:356-364.

[Aerosolized Silver Nanoparticles in the Rat Lung and Pulmonary Responses over Time.](#)

Silva RM, Anderson DS, Peake J, Edwards PC, Patchin ES, Guo T, Gordon T, Chen LC, Sun X, Van Winkle LS, Pinkerton KE. Toxicol Pathol. 2016 Mar 29. pii: 0192623316629804.

[A hard \(metal\) case: Value of analytical scanning electron microscopy.](#)

Sporn TA, Roggli VL. Ultrastruct Pathol. 2016 Mar 8:1-3.

[Are the Associations of Cardiac Acceleration and Deceleration Capacities With Fine Metal Particulate in Welders Mediated by Inflammation?](#)

Umukoro PE, Wong JY, Cavallari JM, Fang SC, Lu C, Lin X, Mittleman MA, Schmidt G, Christiani DC. J Occup Environ Med. 2016 Mar;58(3):232-7.

[Long-Term Metal PM<sub>2.5</sub> Exposures Decrease Cardiac Acceleration and Deceleration Capacities in Welders.](#)

Umukoro PE, Fan T, Zhang J, Cavallari JM, Fang SC, Lu C, Lin X, Mittleman MA, Schmidt G, Christiani DC. J Occup Environ Med. 2016 Mar;58(3):227-31.

## ***Obstructive Lung Diseases and Tobacco Smoke***

[A Multidimensional Risk Score to Predict All-Cause Hospitalization in Community-Dwelling Older Individuals With Obstructive Lung Disease.](#)

Beijers RJ, van den Borst B, Newman AB, Yende S, Kritchevsky SB, Cassano PA, Bauer DC, Harris TB, Schols AM; Health ABC Study. J Am Med Dir Assoc. 2016 Feb 23. pii: S1525-8610(16)00037-2.

[Effect of long-term vitamin E and selenium supplementation on urine F<sub>2</sub>-isoprostanes, a biomarker of oxidative stress.](#)

Guertin KA, Grant RK, Arnold KB, Burwell L, Hartline J, Goodman PJ, Minasian LM, Lippman SM, Klein E, Cassano PA. Free Radic Biol Med. 2016 Mar 22. pii: S0891-5849(16)00116-7.

[Development of a spirometry T-score in the general population.](#)

Lee SW, Kim HK, Baek S, Jung JY, Kim YS, Lee JS, Lee SD, Mannino DM, Oh YM. Int J Chron Obstruct Pulmon Dis. 2016 Feb 23;11:369-79.

[Understanding the impact of second-hand smoke exposure on clinical outcomes in participants with COPD in the SPIROMICS cohort.](#)

Putchala N, Barr RG, Han MK, Woodruff PG, Bleecker ER, Kanner RE, Martinez FJ, Smith BM, Tashkin DP, Bowler RP, Eisner MD, Rennard SI, Wise RA, Hansel NN; SPIROMICS Investigators. Thorax. 2016 Mar 9. pii: thoraxjnl-2015-207487.

## ***Respiratory Infections***

[Progressive Multifocal Leukoencephalopathy in a Lung Transplant Recipient: Isolation of John Cunningham \(JC\) Virus from Bronchoalveolar Lavage.](#)

Panchabhai TS, Choudhary C, Isada C, Folch E, Mehta AC. J Glob Infect Dis. 2016 Jan-Mar;8(1):51-4.

[Epidemiology of nontuberculous mycobacteria isolations among central North Carolina residents, 2006-2010.](#)

Smith GS, Ghio AJ, Stout JE, Messier KP, Hudgens EE, Murphy MS, Pfaller SL, Maillard JM, Hilborn ED. J Infect. 2016 Mar 18. pii: S0163-4453(16)30002-0.

# OPPORTUNITIES

## ATS Foundation Research Program

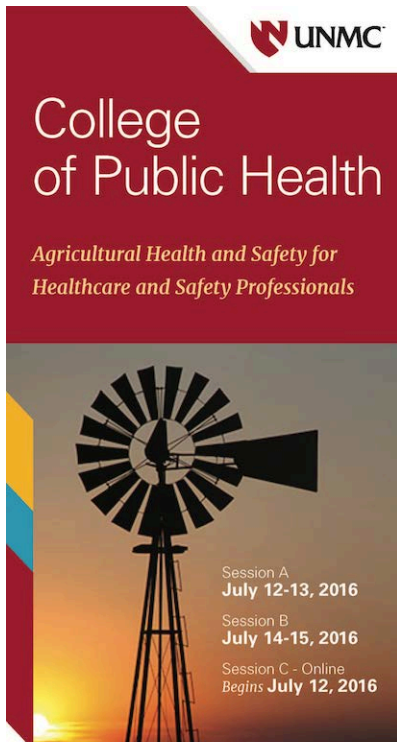
The 2016-2017 ATS Foundation Research Program letters of intent period opens in early April. This program supports young investigators, underfunded areas of research, and studies that reduce the global burden of lung diseases. For more details, please contact [Erin Marie Nebel](#), senior manager of the ATS Foundation Research Program.

## Clinical Cases:

The web committee is currently calling for “Quick Hit” clinical cases with an EOPH focus. These cases will be posted on the website and highlighted in this newsletter. It is a good, peer-reviewed writing opportunity for trainees. For examples, please see the January 2016 newsletter and <http://www.thoracic.org/professionals/clinical-resources/environmental-and-occupational/clinical-cases/pages/instructions.php>. Submit clinical cases to [kbailey@unmc.edu](mailto:kbailey@unmc.edu) or [craig.glazer@utsouthwestern.edu](mailto:craig.glazer@utsouthwestern.edu).

## Training and Development Opportunities

**Early Career Professionals Group:** This group will have a brief meeting at the ATS conference. If you are interested in joining the working group, email Kerri Johannson at [kerri.johannson@ahs.ca](mailto:kerri.johannson@ahs.ca).



## Agricultural Health and Safety for Healthcare and Safety professionals.

The University of Nebraska Medical Center will host a conference focused on Agricultural health and safety July 12-13 and 14-15 in Omaha, Nebraska.

Topics include: Agricultural respiratory diseases, Migrant and immigrant health, Zoonotic diseases, Health effects of pesticides, Agricultural trauma, General environmental hazards in agriculture, Personal protective equipment in agriculture, and a farm tour with hazard recognition and noise dosimetry.

Register by May 31<sup>st</sup> for a discount.

For more information, or to register, go to:

[www.unmc.edu/cce/agmed](http://www.unmc.edu/cce/agmed)

or contact Ellen Duysen at 402-552-3394

[ellen.duysen@unmc.edu](mailto:ellen.duysen@unmc.edu)

